WHAT IS CLAIMED IS:

1. A bus brace comb assembly for use in a switchgear assembly, the switchgear assembly having a channel bus bar for conveying electrical current in each phase, to hold the bus bar in place against magnetic forces associated with short-circuit currents in the switchgear bus bar, the bus brace comb assembly comprising:

a front comb assembly including a first bus clip configured to position the bus bar and a front brace coupled to the bus clip; and

a rear comb assembly including an interlock clamp configured to engage the channel bus bar and second bus clip secured to the interlock clamp with a fastener and a rear brace coupled to the interlock clamp/bus clip assembly, wherein a flange of the channel bus bar is pinched between the rear brace and the interlock clamp/bus clip assembly to secure the channel bus bar.

2. The bus brace comb assembly of claim 1, including a third bus clip a spaced-distance from the first bus clip and coupled to the front brace.

3. The bus brace comb assembly of claim 1, wherein the front brace and rear brace are configured to couple with a plurality of bus clips in a multiple phase switchgear assembly.

4. The bus brace comb assembly of claim 3, wherein the bus clips are E-shape.

5. The bus brace comb assembly of claim 1, wherein each bus brace comb is configured to receive multiple channel bus bars.

6. The bus brace comb assembly of claim 3, including an insulation cover.

7. A switchgear assembly including a channel bus bar for each electric power phase and for conveying electric current, with the channel bus bar maintained in position by a bus brace comb assembly and braced against magnetic forces associated with short-circuit currents in the switchgear bus bar by the bus brace comb, the bus brace comb assembly comprising:

a front comb assembly including a first bus clip configured to position the bus bar and a front brace coupled to the bus clip; and

a rear comb assembly including an interlock clamp configured to engage the channel bus bar and second bus clip secured to the interlock clamp with a fastener and a rear brace coupled to the interlock clamp/bus clip assembly, wherein a flange of the channel bus bar is pinched between the rear brace and the interlock clamp/bus clip assembly to secure the channel bus bar.

8. The switchgear assembly of claim 7, including a third bus clip a spaced-distance from the first bus clip and coupled to the front brace.

9. The switchgear assembly of claim 7, wherein the front brace and rear brace are configured to couple with a plurality of bus clips in a multiple phase switchgear assembly.

10. The switchgear assembly of claim 9, wherein the bus clips are E-shape.

11. The switchgear assembly of claim 7, wherein each bus clip is configured to receive multiple channel bus bars.

12. The switchgear assembly of claim 9, including an insulation cover.

13. A method of securing and positioning channel bus bars in each power phase of a switchgear assembly with a bus brace comb assembly having a front comb assembly and a rear comb assembly, the method comprising the steps of:

positioning each channel bus bar in a bus clip of the front comb assembly;

installing an interlock clamp to couple with at least one flange of a channel bus bar in each power phase;

fastening another bus clip to the interlock clamp; and

coupling a rear brace to each bus clip/interlock clamp assembly, wherein the flange of the channel bus bar is pinched in the interlock clamp/bus clip assembly to secure the channel bus bar.

14. The method of claim 13, including the step of coupling a front brace to the bus clip of the front comb assembly.

15. The method of claim 13, including the step of positioning a third bus clip a spaced distance from the bus clip of the front comb assembly.

16. The method of claim 13, wherein each channel bus bar of each power phase is coupled to the front comb assembly and rear comb assembly.

17. The method of claim 16, including the step of installing an insulation cover on the bus brace comb assembly.

18. The method of claim 13, wherein each bus clip is E-shaped.